

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A user equipment for use in a code division multiple access communication system, the user equipment comprising:

circuitry configured to process a user equipment identification (UE ID) by $\frac{1}{2}$ rate convolutionally encoding the UE ID to produce a code used by the user equipment for descrambling a high speed shared control channel (HS-SCCH); wherein the user equipment is configured to receive a wireless signal, the wireless signal providing the user equipment with payload data carried on a high speed physical downlink shared channel (HS-PDSCH), the HS-PDSCH being associated with the HS-SCCH.

2. (Previously Presented) The user equipment of claim 1, wherein the HS-SCCH comprises a first part and a second part and wherein the code is used by the user equipment for descrambling only the first part of the HS-SCCH.

3. (Previously Presented) The user equipment of claim 2, wherein the UE ID has a length of 16 bits.

4. (Previously Presented) The user equipment of claim 3, wherein the circuitry configured to process the UE ID is further configured to process the UE ID and eight zero bits appended to the UE ID to produce the code used by the user equipment for descrambling the first part of the HS-SCCH.

5. (Previously Presented) The user equipment of claim 4, wherein when the circuitry configured to process the UE ID processes the UE ID and the eight zero bits appended to the UE ID, the circuitry configured to process the UE ID produces a 48 bit code and wherein the user equipment further comprises:

circuitry configured to puncture 8 bits of the 48 bit code to produce the code used by the user equipment for descrambling the first part of the HS-SCCH.

6. (Previously Presented) The user equipment of claim 2, wherein the first part of the HS-SCCH includes channelization and modulation information associated with the HS-PDSCH.

7. (Previously Presented) The user equipment of claim 1, wherein the user equipment supports multimedia services.

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Previously Presented) A user equipment for use in a code division multiple access communication system, the user equipment being configured to monitor a plurality of high speed shared control channels (HS-SCCHs), at least one of the plurality of HS-SCCHs being scrambled at a base station associated with the communication system by a scrambling code and the scrambling code being

produced by $\frac{1}{2}$ rate convolutionally encoding a user equipment identification (UE ID) associated with the user equipment, and comprising circuitry configured to descramble the HS-SCCH scrambled by the scrambling code, wherein

the user equipment is further configured to receive a wireless signal from the base station, the wireless signal providing the user equipment with payload data carried on a high speed physical downlink shared channel (HS-PDSCH), the HS-PDSCH being associated with the HS-SCCH.

12. (Previously Presented) The user equipment of claim 11, wherein the user equipment is configured to monitor up to four HS-SCCHs.

13. (Previously Presented) The user equipment of claim 11, wherein the at least one of the plurality of HS-SCCHs comprises a first part and a second part and wherein only the first part of the at least one of the plurality of HS-SCCHs has been scrambled by the scrambling code.

14. (Previously Presented) The user equipment of claim 13, wherein the first part of the at least one of the plurality of HS-SCCHs includes channelization and modulation information associated with the HS-PDSCH.

15. (Previously Presented) The user equipment of claim 11, wherein the UE ID has a length of 16 bits.

16. (Previously Presented) The user equipment of claim 13, wherein the circuitry configured to descramble the HS-SCCH scrambled by the scrambling code comprises:

a $\frac{1}{2}$ rate convolutional encoder configured to process the UE ID and eight zero bits appended to the UE ID to produce a 48 bit code;
circuitry configured to puncture 8 bits of the 48 bit code; and
circuitry configured to mix the first part of the at least one of the plurality of HS-SCCHs with the punctured 48 bit code.

17. (Previously Presented) The user equipment of claim 16, wherein the circuitry configured to mix the first part of the at least one of the plurality of HS-SCCHs with the punctured 48 bit code comprises an exclusive-OR gate.

18. (Previously Presented) The user equipment of claim 11, wherein the user equipment supports multimedia services.

19. (New) A base station for use in a code division multiple access communication system, the base station comprising:

circuitry configured to process information, including a user equipment identification (UE ID), by $\frac{1}{2}$ rate convolutionally encoding the information to produce coded information, the circuit further being configured to generate a scrambling code based on the coded information, the scrambling code being used by the base station for scrambling at least a portion of a high speed shared control channel (HS-SCCH),

wherein the base station is configured to transmit a wireless signal, the wireless signal providing the user equipment with payload data carried on a high speed physical downlink shared channel (HS-PDSCH), the HS-PDSCH being associated with the HS-SCCH.

20. (New) The base station of claim 19, wherein the portion of the HS-SCCH is a first part of the HS-SCCH, the HS-SCCH comprises a second part, such that the base station scrambles only the first part of the HS-SCCH.

21. (New) The base station of claim 20, wherein the UE ID has a length of 16 bits.

22. (New) The base station of claim 21, wherein the information further includes eight zero bits appended to the UE ID.

23. (New) The base station of claim 22, wherein the coded information is 48 bits in length, wherein the circuitry is further configured to puncture 8 bits of the coded information to produce the scrambling code, the scrambling code being used by the base station to scramble the first part of the HS-SCCH.

24. (New) The base station of claim 20, wherein the first part of the HS-SCCH includes channelization and modulation information associated with the HS-PDSCH.

25. (New) The base station of claim 19, wherein the base station supports multimedia services.

26. (New) A base station for use in a code division multiple access communication system, the base station being configured to transmit control data carried by a plurality of high speed shared control channels (HS-SCCHs), at least a portion of one of the plurality of HS-SCCHs being scrambled by the base station in

accordance with a scrambling code, the scrambling code being obtained from coded information, the coded information being generated by $\frac{1}{2}$ rate convolutionally encoding information including a user equipment identification (UE ID), the UE ID corresponding to a user equipment associated with the communication system, wherein

the base station is further configured to transmit a wireless signal to the user equipment, the wireless signal providing the user equipment with payload data carried on a high speed physical downlink shared channel (HS-PDSCH), the HS-PDSCH being associated with the HS-SCCH.

27. (New) The base station of claim 26, wherein the portion of the one of the plurality of HS-SCCHs is a first part, the one of the plurality of HS-SCCHs including a second part, such that the base station only scrambles the first part of the one of the plurality of HS-SCCHs .

28. (New) The base station of claim 27, wherein the first part of one of the plurality of HS-SCCHs includes channelization and modulation information associated with the HS-PDSCH.

29. (New) The base station of claim 26, wherein the UE ID has a length of 16 bits.

30. (New) The base station of claim 26, wherein the information further includes eight zero bits appended to the UE ID and the coded information has a length of 48 bits, the base station further comprises:

circuitry configured to puncture 8 bits of the encoded information to generate the scrambling code; and

circuitry configured to mix the first part of the one of the plurality of HS-SCCHs with the scrambling code.

31. (New) The base station of claim 30, wherein the circuitry configured to mix the first part of one of the plurality of HS-SCCHs with the scrambling code comprises an exclusive-OR gate.

32. (New) The base station of claim 26, wherein the base station supports multimedia services.

33. (New) A code division multiple access system comprising:
a base station including circuitry configured to process first information, including a user equipment identification (UE ID), by $\frac{1}{2}$ rate convolutionally encoding the first information to produce first coded information, the base station scrambling a high speed shared control channel (HS-SCCH) in accordance with a first scrambling code, the first scrambling code being generated based on the first coded information, wherein the base station is configured to transmit a wireless signal, the wireless signal providing payload data carried on a high speed physical downlink shared channel (HS-PDSCH), the HS-PDSCH being associated with the HS-SCCH; and

a user equipment configured to receive the wireless signal transmitted by the base station, the user equipment including circuitry configured to process second information, including the UE ID, by $\frac{1}{2}$ rate convolutionally encoding the second information to generate second coded information, the user equipment descrambling

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the scrambled HS-SCCH based on a second scrambling code, the second scrambling code being based on the second coded information.